



Electronic Service Manuals

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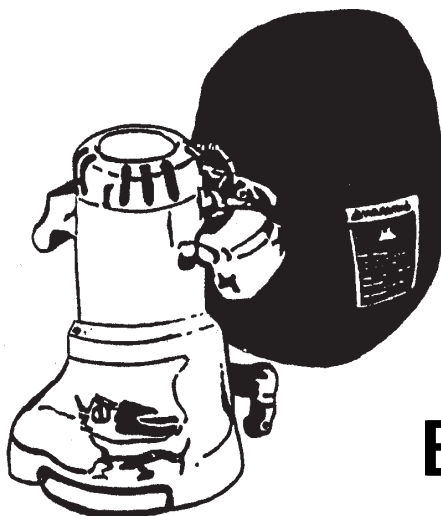
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Clarke[®]

American Sanders

Operator's Manual



B2 7" Spinner Edger (CE)

MODEL: 07097A

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your Clarke American Sanders machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator's position at the rear of the machine.

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WARNING!

The Products sold with this Manual contain or may contain chemicals that are known to certain governments (such as the State of California, as identified in its Proposition 65 Regulatory Warning Law) to cause cancer, birth defects or other reproductive harm. In certain locations (including the State of California) purchasers of these Products that place them in service at an employment job site or a publicly accessible space are required by regulation to make certain notices, warnings or disclosures regarding the chemicals that are or may be contained in the Products at or about such work sites. It is the purchaser's responsibility to know the content of, and to comply with, any laws and regulations relating to the use of these Products in such environments. The Manufacturer disclaims any responsibility to advise purchasers of any specific requirements that may be applicable to the use of the Products in such environments.

OPERATOR SAFETY INSTRUCTIONS



WARNING



AVERTISSEMENT



ADVERTENCIA

DANGER means:	Severe bodily injury or death can occur to you or other personnel if the DANGER statements found on this machine or in this Operator's Manual are ignored or are not adhered to. Read and observe all DANGER statements found in this Operator's Manual and on your machine.
WARNING means:	Injury can occur to you or to other personnel if the WARNING statements found on your machine or in this Operator's Manual are ignored or are not adhered to. Read and observe all WARNING statements found in this Operator's Manual and on your machine.
CAUTION means:	Damage can occur to the machine or to other property if the CAUTION statements found on your machine or in this Operator's Manual are ignored or are not adhered to. Read and observe all CAUTION statements found in this Operator's Manual and on your machine.



DANGER:



Failure to read the Operator's Manual before operating or servicing this sanding equipment could result in injury to the operator or to bystanders and could cause damage to the equipment. Read and observe all safety statements found in this manual and on the sanding equipment. Make sure all labels, decals, warnings, cautions and instructions are fastened to the equipment. Replace any that are damaged or missing. You must have training in the operation of this equipment before using it. **If the operator is unable to read this manual, have it explained fully before they attempt to use this equipment.**



DANGER:



Sanding/finishing wood floors can create an environment that can be explosive. The following safety procedures must be adhered to:

- Cigarette lighters, pilot lights and any other source of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely if possible from the work area.
- Work areas that are poorly ventilated can create an explosive environment when certain combustible materials are in the atmosphere, i.e., solvents, thinners, alcohol, fuels, certain finishes, wood dust and other combustible materials. Floor sanding equipment can cause flammable material and vapors to burn. Read the manufacturer's label on all chemicals used to determine combustibility. Keep the work area well ventilated.
- Spontaneous combustion or an explosion can occur when working with sanding dust. The sanding dust can self-ignite and cause injury or damage. Sanding dust should be disposed of properly. Always empty the sanding dust into a metal container that is located outside of any building(s).
- Remove the contents of the dust bag when the bag is 1/3 full. Remove the contents of the dust bag each time you finish using the equipment. Never leave a dust bag unattended with sanding dust in it.
- Do not empty the contents of the dust bag into a fire.
- Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

**DANGER:**

Operating partially assembled sanding equipment could result in injury to the operator or bystander and could cause damage to the equipment or to other property.

- Do not operate this equipment unless it is fully assembled and all guards, doors and covers are secured.
- Keep all fasteners tight.
- Keep all adjustments within manufacturers specifications.

**DANGER:**

Moving parts on this sanding equipment can cause injury to the operator or bystanders.

- Keep hands, feet and loose clothing away from all moving parts.
- Do not change or adjust the abrasive while the sanding equipment is running.
- Do not service the sanding equipment while it is running.

**DANGER:**

This sanding equipment requires a supply of electricity. Improper use could result in electrical shock or fire.

- Connect only to an electrical source matching what is shown on the equipment nameplate.
- Do not use this sanding equipment on an ungrounded electrical circuit. Consult an electrician if you suspect the circuit is not properly grounded.
- Do not use this sanding equipment with a damaged electrical cord. Inspect before each use.
- Avoid striking the electrical cord with the abrasive. Always lift the electrical cord over the sanding equipment.
- Do not use the electrical cord to move the sanding equipment.
- Disconnect the electrical source before servicing this equipment.

**WARNING:**

Injury to the operator or bystander can occur if protective gear is not worn while sanding. Always use eye, ear, and respiratory protection while performing any sanding operation.

**WARNING:**

Bodily injury could occur if power is applied to the equipment with the power switch already in the "ON" position. Always check to assure that the power switch is in the "OFF" position before connecting power supply.

**CAUTION:**

Maintenance and repairs performed by unauthorized personnel could result in damage or injury. Maintenance and repairs performed by unauthorized personnel will void your warranty. Servicing of this unit must always be referred to an authorized Clarke American Sanders distributor.

**CAUTION:**

Use of this equipment to move other objects or to climb on could result in injury or damage. Do not use this equipment as a step or furniture. Do not ride on this equipment.

**CAUTION:**

Damage could occur to the equipment if not properly kept in a dry building for storage. Store the equipment in a dry building.

**CAUTION:**

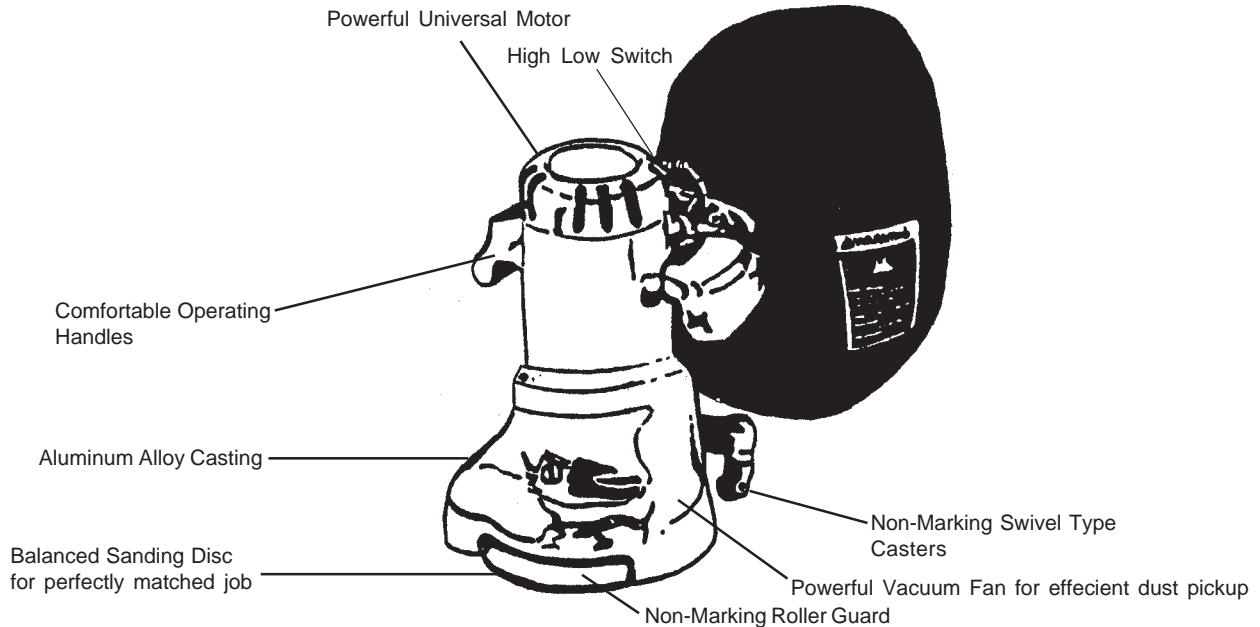
Serious damage to the floor can occur if the sanding equipment is left running in one spot while the sanding disc is in contact with the floor. To avoid damage to the floor, do not dwell while lowering or raising the sanding disc. Always sand with a constant motion.

INTRODUCTION AND MACHINE SPECIFICATIONS

revised 5/10

The B-2 is specifically designed for finishing floor edges, stairs, and other hard-to-reach surfaces. The handle location and low center of gravity make the B-2 easy to operate.

The excellent cutting power comes from a powerful universal type motor. A motor that delivers maximum performance without slowing down or overheating. Its exclusive two speed control when switched to hi-speed produces 3200 rpm for fast, rough sanding. At low speed, the B-2 operates at 2800 rpm for fine, finish sanding. A non marking disc guard protects the rubber pad, permitting the edger to work right up to the baseboard or wall.



Specifications

Voltage/Frequency	220V-240/50-60 Hz
Amperage	6.5
Motor	1450W (1 HP)
Sound Level	91dB (A)
Vibration	5.7 m/s ² rms
Abrasive Size	178mm x 22 mm Dia. (7" x 7/8" Dia.)
Disc Rate High	3200 RPM
Disc Rate Low	2800 RPM
Gears	Hardened steel alloy pinion and drive gear.
Bearings	Sealed ball bearings, lifetime lubricated.
Dust Collector	Powerful vacuum fan, full aluminum skirt
Power Cord	12m H07RN F3G 1.5mm ²
Dimensions	356 x 260 x 343mm (14 x 10½ x 13½)
Weight	14.5 kg (32 lbs)
Shipping Weight	21 kg (46 lbs)

Machine Set-up

This sanding machine is designed to be operated with a remote vacuum dust collection system or with the included dust bag.

Preparing Remote Vacuum Dust Collection Systems

To prepare the machine for remote vacuum dust collection systems that have a 2" hose end, follow this procedure:

1. Install 2" hose end (figure 1, A) directly over the exhaust tube (figure 1, B).
2. The exhaust tube can be rotated for optimum convenience.

To prepare the machine for remote vacuum dust collection systems that have a 1 ½" hose end, follow this procedure:

1. Install the 2" x 1 ½" hose end adaptor (Part No. 30563A) (figure 1, C) over the exhaust tube (figure 1, B).
2. Insert 1 ½" hose end (figure 1, D) into the adaptor (figure 1, C).

NOTE: Start the remote vacuum collection system before operation.

Preparing to use the included dust bag

To prepare the machine for use with the included dust bag (Part No. 53544B), follow this procedure:

1. Install the dust bag by pressing the end onto the exhaust tube until the ring locks into the groove (figure 2). This is best done by pressing on the back of the bag opening with the palm of your hand.
2. The exhaust tube can be rotated for optimum convenience.
3. To remove the dust bag from the exhaust tube, pry up the end of the bag opening to partially release the internal rib from the groove, then pull.
4. To empty the dust bag, unzip the disposal flap and force contents out by inverting the bag.

NOTE: For best results, empty frequently. Follow all warnings posted in this manual and on the dust bag.

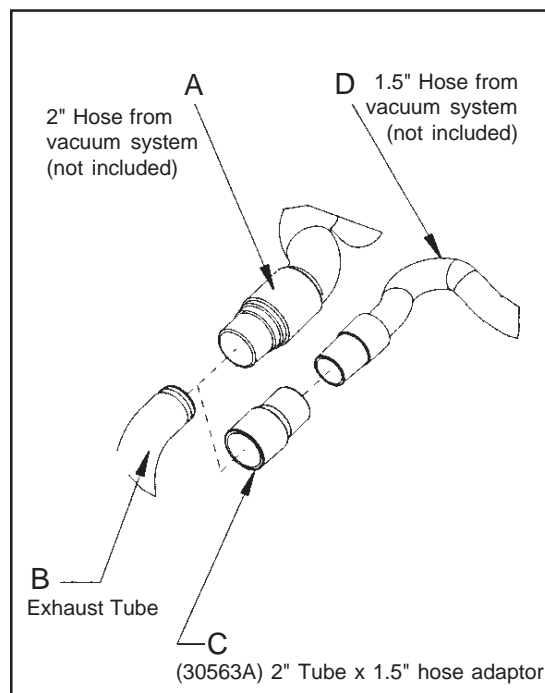


Figure 1

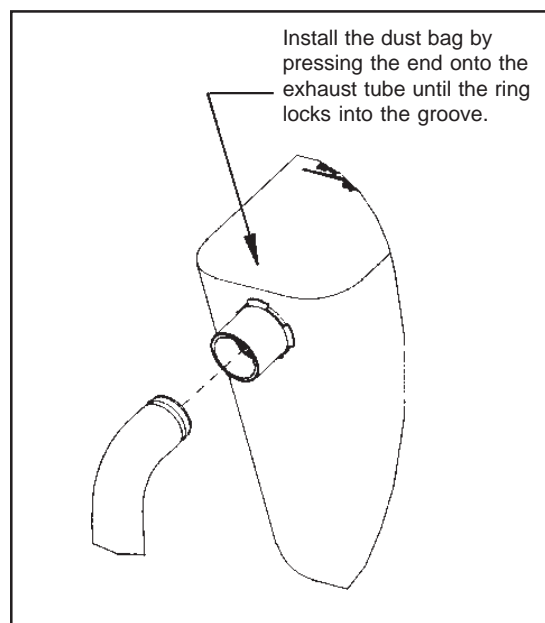


Figure 2

MACHINE SET-UP

To prepare the machine for use, follow this procedure:

1. Familiarize yourself with the machine. Read all danger, warning and caution statements and the Owner's Manual. If operator is unable to read English, have the manual explained before operating.
2. To install or replace abrasive, turn the machine upside down and let it rest on the motor cover. With the wrench supplied, remove the screw and abrasive retainer. Hold pad to prevent it from rotating and turn wrench. See figure 3.
3. Center abrasive on pad and install the abrasive retainer and screw. Tighten screw.
4. Return machine to upright position.



Figure 3

⚠ WARNING: Serious injury could occur when attempting to replace abrasive while machine is connected to power supply. Always disconnect power before installing abrasive.

⚠ CAUTION: Gearbox damage could result from machine resting upside down for extended periods of time. Lubricant may drain from gearbox. Always return machine to upright position after installing abrasive.

OPERATING INSTRUCTIONS

To operate the machine, follow this procedure:

1. Set any exposed nails with a hammer and punch to avoid encounter with sanding pad.
2. Connect the machine to an appropriately grounded and fused circuit (power supply).
3. Tilt the machine back so that the sanding pad does not contact the floor. Select cutting speed. Use high speed for fast stock removal. Use low speed for finish cuts and custom work. See figure 4 (A).
4. Depress and release the start/stop push button to start the machine. See figure 4 (B).
5. Gradually lower sanding pad to the floor. Make sure the machine is in motion while the sanding pad is engaged with the floor. Broad circular motions can be used as you sand along the length of the floor or you may use a combination of forward and sideways motions. In time you will develop your own technique to optimize coverage and dust control. It is advisable to not add effort to the pad as this may lead to "nosing" or "tipping" which produces grooves or lines on the floor.
6. When replacing abrasive; emptying the contents of the dust bag; or the sanding operation is completed, return the machine to the reclined position and flip the control switch to the off (O) position. Disconnect the machine from the power supply.
7. Empty dust bag whenever it becomes 1/3 full.

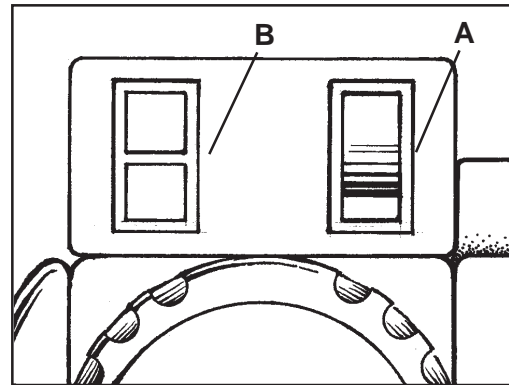


Figure 4

⚠ DANGER: Failure to disconnect the supply cable from machine whenever servicing, replacing abrasive, or emptying the dust bag could result in electrocution or severe injury. Never leave machine unattended while the supply cable is connected.

⚠ DANGER: Never leave dust bag unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion. Empty dust bag into a metal container, clear of any combustibles. Do not empty content into a fire. Do not overfill dust bag.

SANDING CUTS AND SANDPAPER

Initial Cut

The purpose of the initial cut is to remove old finish and gross imperfections on the floor surface. A coarse abrasive should be used. If the surface is severely damaged by deep scratches, pre-existing dwell marks, uneven planks, etc., it may be necessary to sand across or diagonally to the grain to restore evenness to the surface. If these conditions are not present, the initial cut should be done in the direction of the grain.

If glazing, loading, or burning takes place immediately into an initial cut, select a coarser abrasive. If this should occur during an initial cut, the abrasive has dulled and must be replaced.

Final Cuts

The purpose of a finishing cut is to remove the scratches produced during the initial cut. Use a fine (60 - 80 grit) grain abrasive.

If the surface remains rough after a finishing cut, it may be necessary to use an even finer grain of abrasive (80 - 100 grit). Care should be taken in selecting the grit size of the abrasive. A very fine grain will close the pores on a wood floor making admission of a stain difficult.

If glazing or burning should occur immediately into a finishing cut, increase pace. If it should occur during a finishing cut, the abrasive has dulled and must be replaced.

Grain	Use	Standard Grade Part #/Qty	Professional Grade Part #/Qty
12 grit 16 grit 20 grit	For removing gross imperfections and restore evenness to old flooring. To remove build-up of paints and varnishes.	945300/50 945301/50 945302/50	945594/200 945595/200 945596/200
30 grit 36 grit	For first sanding of new flooring (maple, oak). For removing minor imperfections and finishes from old flooring.	945305/100	945598/300 945599/300
40 grit	For initial cut on new flooring (oak, walnut). For removing minor imperfections and finishes from old flooring.		945600/300
50 grit	For first sanding of new flooring (cedar, pine, fir) For clean-up of 16 grit.	945307/100	945601/300
60 grit	For clean-up from initial cut 36 grit.	945308/100	945602/300
80 grit	For final sanding of certain hardwoods. For clean-up of initial cuts (50 grit).	945309/100	945603/300
100 grit	For final sanding of certain hardwoods and conifers where a smooth surface is desired.	945310/100	945604/300
120 grit	For finishing cut on certain conifers.		945605/500
150 grit	For finishing cut on certain conifers where a smooth surface is desired.		945606/300

MAINTENANCE

CAUTION: Maintenance and repairs performed by unauthorized personnel could result in damage or injury. Maintenance and repairs performed by unauthorized personnel will void your warranty. Servicing of these units must always be referred to an authorized Clarke American Sanders distributor.

The Dust Control System

Remove the dust from the bag when the bag is $\frac{1}{3}$ full or when the efficiency of the dust control system decreases.

If the exhaust pipe gets an obstruction, follow this procedure:

1. Remove the four screws that hold the exhaust pipe to the housing. See figure 5.
2. Remove the obstruction from the exhaust pipe.
3. Install the exhaust pipe.

How to Adjust the Angle Of The Sandpaper Disc To The Floor

The adjustment of the machine is correct when the front part of the sandpaper disc makes contact with the floor.

To change the adjustment of the machine, follow this procedure:

1. Using the special wrench, loosen the lock nut on each caster. See (1) figure 6.1.
2. Loosen the jam nut. See (2) figure 6.2.
3. Raise or lower the casters as needed.
4. Tighten the jam nut on each caster.
5. Tighten the lock nut on each caster.

The Ventilation Plug

1. To clean the ventilation opening in the center of the plug, remove the plug from the machine. With the plug removed, also inspect the grease in the gearbox. See figure 7.

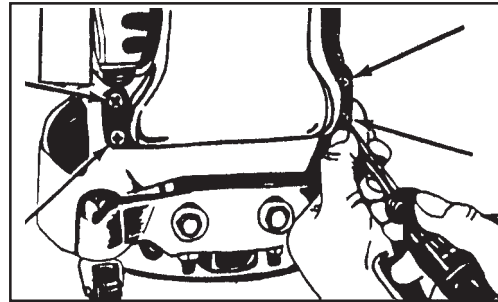


Figure 5

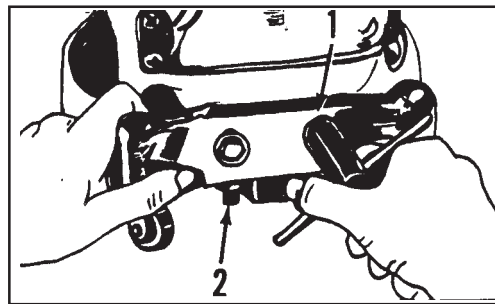


Figure 6

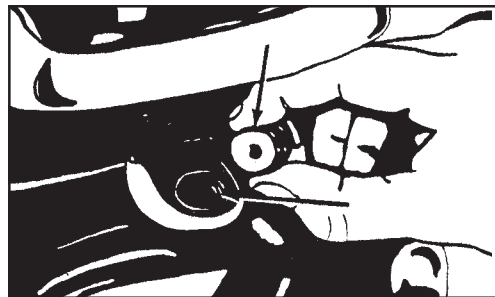


Figure 7

MAINTENANCE

Lubrication

The machine is completely lubricated. The bearings and gears in the gear unit have enough lubricant for approximately six months of normal operation. All other bearings are sealed and have enough lubricant for the life of the machine. No lubricant is needed for the rotating disc guard.

How To Change The Lubricant In The Gearbox

To change the lubricant in the gearbox, follow this procedure:

1. Put the machine upside down on a bench.
2. Align one of the two holes in the rubber pad with one of the three holes in the rotating disc guard.
3. Align both holes with one of the three screws in the gear housing cover. Remove the screw from the gear housing cover. See figure 9.
4. Align the holes with each of the other two screws, then remove screws.

CAUTION: Make sure no dust enters the gear box. Damage could occur to the gear box.

5. Remove the cover from the gear housing.
6. Remove the old lubricant from the gearbox.
7. Add ten ounces of Clarke American Sanders lubricant to the gearbox.

CAUTION: To prevent damage to the motor, do not add more than ten ounces of lubricant to the gearbox.

8. Using the three screws removed above, install the cover on the gear housing.
9. Start the machine and let it run for 15 minutes. A small amount of excess lubricant should flow out the vent hole. If none appears it may be necessary to add additional lubricant.
10. Wipe off excess lubricant and clear vent hole.

How To Check The Carbon Brushes

Depending on use, a set of brushes can be expected to last 250 hours and should be inspected sometime prior to that time.

To check the brushes, follow this procedure:

1. Remove the motor cover. See figure 10.
2. Inspect the carbon brushes. Replace both brushes if either brush has worn to 3/8" in length, or is worn to the wear indicator. See figure 11.
3. To replace the brushes, disconnect the field wire (A) from the brush holder (B). Then remove the two screws and washers (C) securing the holder to the motor housing. See figure 12.

Lubricants

Qty	Part No.
1 Qt.	16610A
1 Gal.	16611A

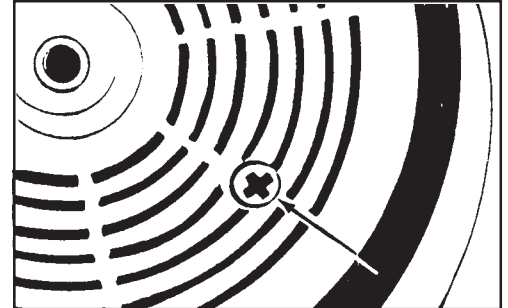


Figure 9

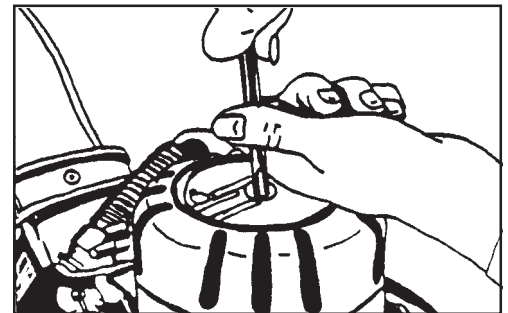


Figure 10

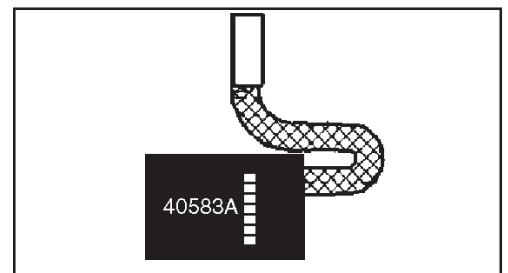


Figure 11

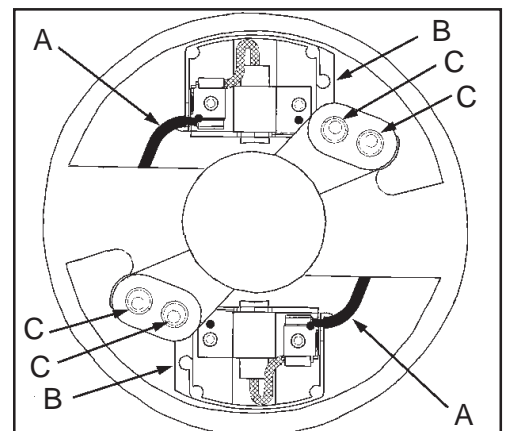
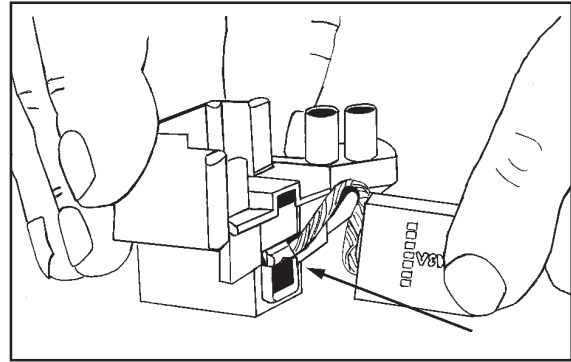


Figure 12

How To Check The Carbon Brushes (cont)

4. Gently pry the holder down from the motor housing.
5. Rotate holder from beneath the motor housing and lift out.
6. Disconnect the brush shunt wire from the holder. For convenience, cut the terminal from the shunt wire and remove brush.
7. To put in a new carbon brush, negotiate the terminal on the shunt wire by the spring and brush holder guide. Take care not to damage the spring. See figure 13.
8. Depress the brush into the guide and connect the shunt wire to the holder.
9. Depress the brush and insert the holder into the motor housing.
10. Rotate holder beneath motor housing. Relax brush against commutator.
11. Align posts on holder with holes in housing.
12. Gently pry the holder into the housing.
13. Reattach screws and washers.
14. Start up the machine, if sparking between either brush and the commutator occurs, use a brush seating stone on the commutator to promote full engagement between the brushes and commutator.
15. Install the motor cover.

**Figure 13**

Clarke®

American Sanders

B2

7" Spinner

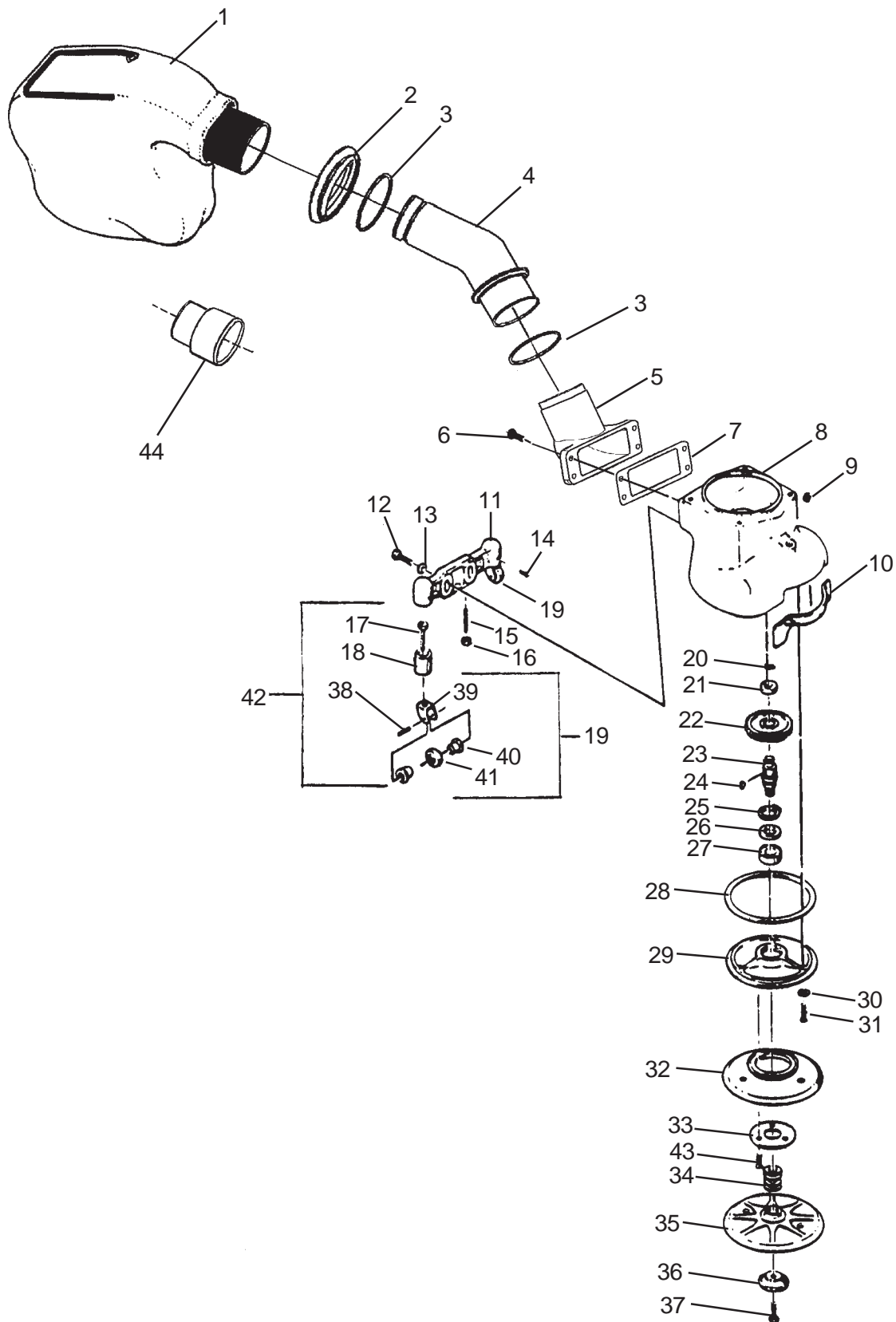
Edger (CE)

Section II

Parts and Service Manual

(70162B)

Clarke®
American Sanders
 Model B-2 7" Spinner Edger (CE)
 Drawing #1



Clarke®
American Sanders
Model B-2 7" Spinner Edger (CE)
Parts List #1

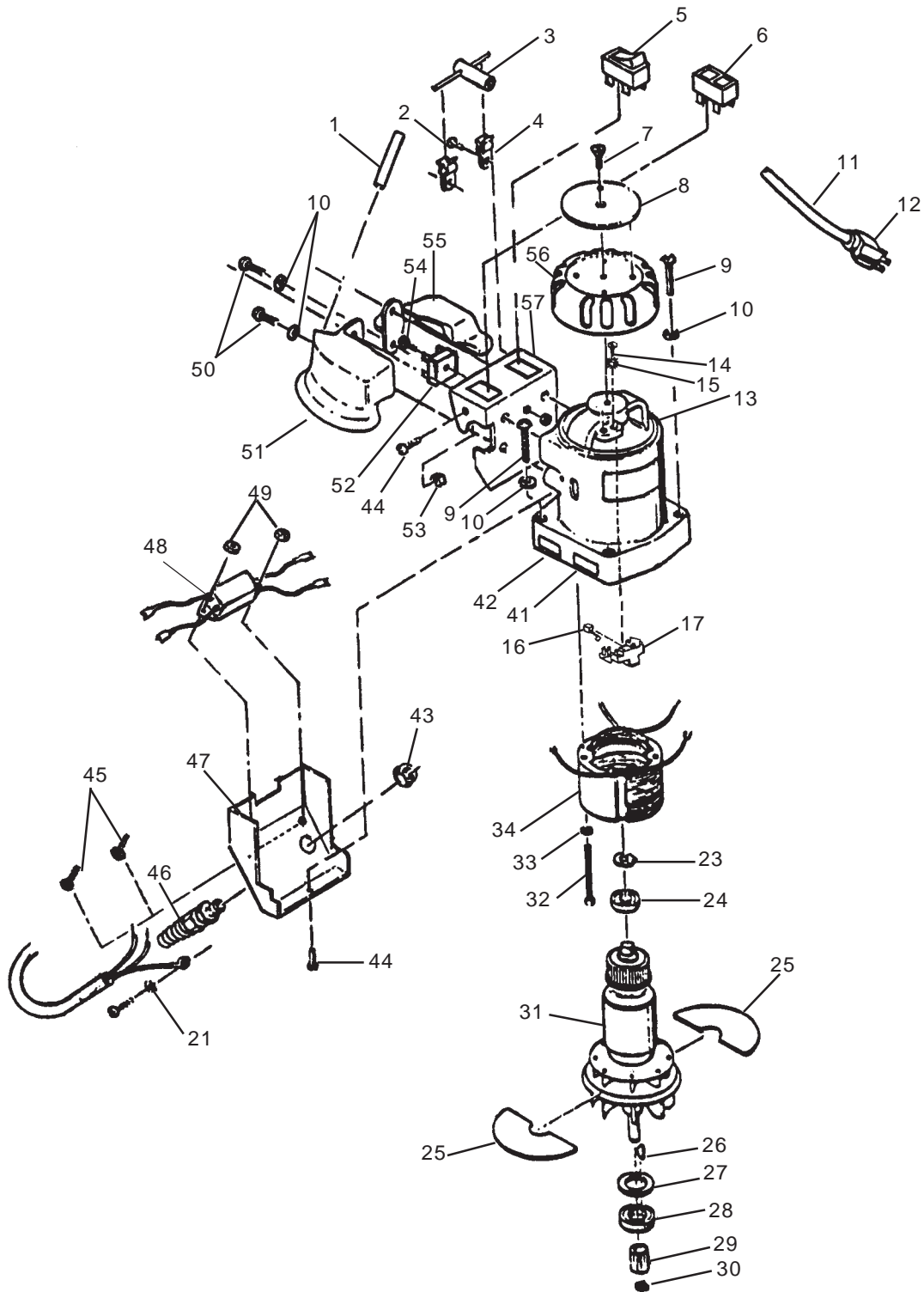
Ref.	Part No.	Description	Qty.
1	53544B	Dust Bag	1
2	80276A	Nut, Slip Joint 2" x 2"	1
3	30613A	Washer, Seal	2
4	61712A	Tube, Exhaust	1
5	21078A	Adaptor, Exhaust	1
6	962454	Screw - ¼ - 20 x 1	4
7	34233A	Gasket	1
8	24509B	Housing - Gear	1
9	66130A	Plug	1
10	38103A	Gasket	1
11	21106A	Barcket - Caster	1
12	85814A	Screw - 5/16 -18 x 1¼ Hx Hd	2
13	980676	Washer - 5/16 Fit	2
14	962170	Screw-Set 10-24 x ¼	2
15	86203A	Screw - 5/16-18 x 1½ St	2
16	920160	Nut - 5/16-18 Hx Jam	2
17	85701A	Screw-¼-20 x 1½ Hx St	2
18	51128A	Bearing	2
19	19901A	Yoke Assembly - Caster	2
20	467308	Ring - Retaining	1
21	51127A	Bearing	1

Ref.	Part No.	Description	Qty.
22	61568A	Gear	1
23	67426A	Shaft	1
24	915028	Key	1
25	57702A	Ring - Retaining	1
26	58114A	Seal - Oil	1
27	902550	Bearing	1
28	34232A	Gasket	1
29	12906A	Cover - Gearcase	1
30	59817A	Washer - 1/4 Nylon Countersink	3
31	962098	Screw - ¼-20 x ¾ Fit Hd	3
32	15000A	Guard - Roller	1
33	66917A	Retainer	1
34	39707A	Washer - Felt	4
35	13200A	Disc - Sanding	1
36	62411A	Clamp - Paper	1
37	85715A	Screw - 5/16-18 x 1 Hx Hd	1
38	925592	Pin ¼ x 1 Spirol	2
39	29404A	Yoke, Edger Caster	2
40	50740A	Bearing	4
41	299704	Roller Caster	2
42	12203A	Caster Assembly	2
43	84200A	Screw, 8-32 x ½ Flat Head	4
44	30563A	Adaptor, 2" Tube x 1½" Hose	1

Note: Ref #19 (19901A) includes Ref. #'s17, 38, 39, 40 (2), & 41

Note:Ref #42 (12203A) includes #'s 17, 18, 38, 39, 40 (2) &41

**Clarke®
American Sanders**
Model B-2 7" Spinner Edger (CE)
Drawing #2



Clarke®
American Sanders
Model B-2 7" Spinner Edger (CE)
Parts List #2

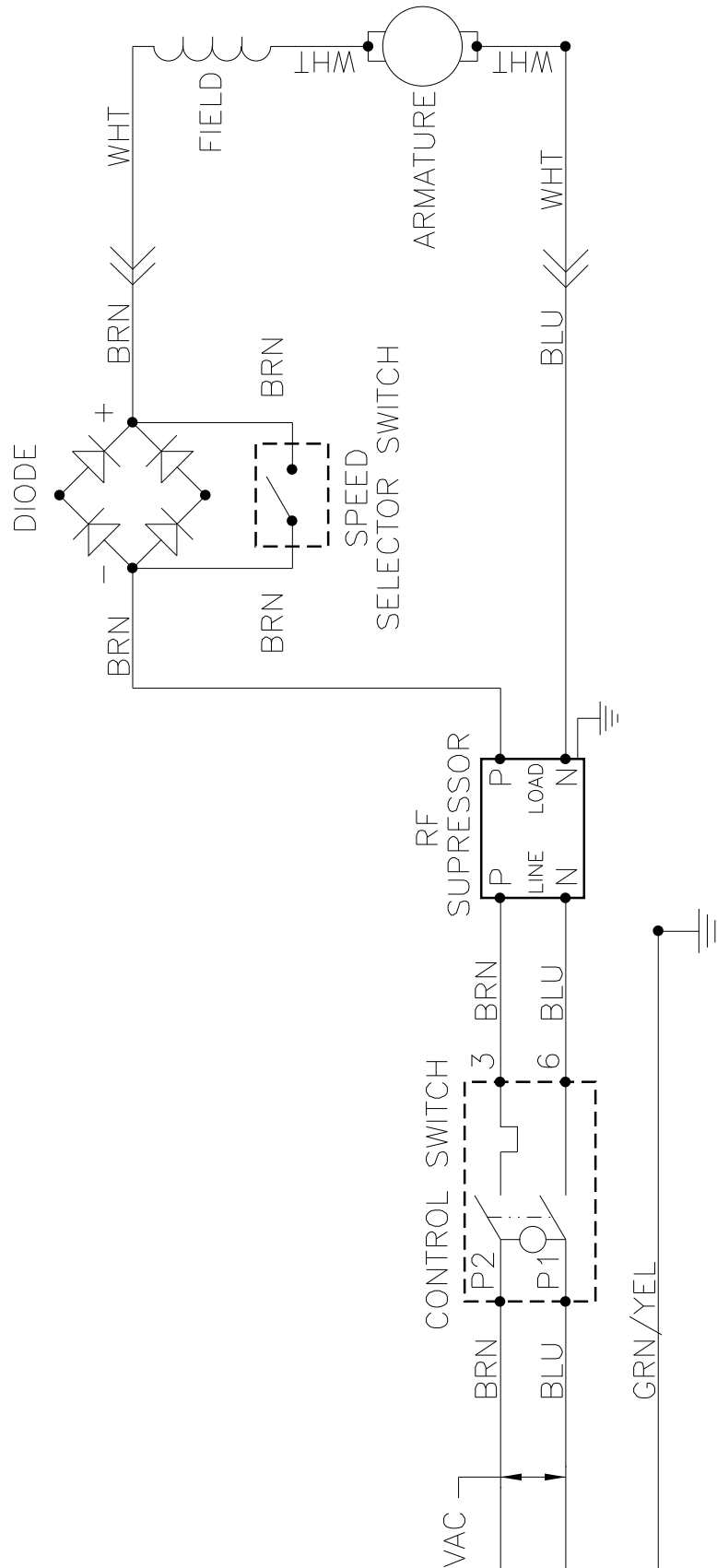
Ref.	Part No.	Description	Qty.
1	39305A	Tubing	1
2	962823	Screw, 1/4-20 x 1/2	2
3	68705A	Wrench - Special	1
4	64601A	Holder - Wrench	2
5	47365A	Switch Rocker	1
6	40114A	Switch, Pushbutton	1
7	84234A	Screw - 5/16-24 x 3/8 Flt Hd	1
8	70686A	Plate - Name	1
9	85333A	Screw - 1/4-20 x 2 Pn Hd	4
10	980657	Washer - 1/4 Lock	8
11	40115A	Cord Set w/EU1-16P	1
	40518A	Cord Set w/UK1-13P	1
12	40073A	Plug, 230V w/EU1-16P	1
	45609A	Plug UK1-13P	1
13	20011A	Housing - Motor	1
14	962727	Screw, 8 - 32 x 1/2	4
15	980621	Washer	4
16	40583A	Brush, Terminated	2
17	40717A	Holder, Brush	2
23	58602A	Spring	1
24	51126A	Bearing	1
25	60800A	Baffle	2
26	65302A	Key	1
27	58113A	Seal	1
28	902550	Bearing	1
29	63701A	Gear - Pinion	1

Ref.	Part No.	Description	Qty.
30	57701A	Ring - Retaining	1
31	10112A	Armature - 230V	1
32	85358A	Screw - 10-24 x 3½ Pn SS	2
33	980699	Washer - SH #1210	2
34	40719A	Field Assembly - 240V	1
37	80200A	Pin	2
38	980643	Washer - 7/16 OD x .036 Thk	2
39	67913A	Spring	2
40	17407A	Pin Assembly - Brush Spring Stop	2
41	215110	Label	1
42	215103	Label	1
43	81210A	Nut Fixture 3/8 PT	2
44	85520A	Screw 8-00 x 1/2	3
45	962015	Screw, 10-24 x 3/8	2
46	56425A	Strain Relief	1
47	50826A	Cover	1
48	46739A	Suppressor RF 240V	1
49	920296	Nut 10 -24	2
50	962454	Screw - 1/4-20 x 1	4
51	20012A	Handle	1
52	912287	Diode Bridge	1
53	81217A	Nut 1/4-20	2
54	962727	Screw, 8-32 x 1/2	2
55	24303A	Handle - Left	1
56	62009A	Cap - Motor Housing	1
57	50827A	Enclosure	1
[]	30050A	Case, Carrying	1
[]	56380639	Decal-Prop 65	1
[]#	56380216	Decal-Power Tool Warning	1

[] = Not Shown

= New or Revised Since Last Update

Clarke®
American Sanders
Model B-2 7" Spinner Edger (CE)
Wiring Diagram 11/99



Clarke®
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